

Date: Thu, 20 May 93 04:30:19 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #610
To: Info-Hams

Info-Hams Digest Thu, 20 May 93 Volume 93 : Issue 610

Today's Topics:

 Alinco DJ580 Gets HOT!!!
 catalina ISland/SO cal freq
 HTX-202 going on sale
 Icom IC-02E deviation adjustment?
Intermod/spurious sigs a common HT problem?
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 Mods for TS50
 QSL info need for Pitcairn Island
 RFI from ZyXEL modem, please advise
 VHF/UHF Full Duplex Power amplifier?
 Want windows based theory tester
 What is circular polarization?

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Thu, 20 May 1993 07:34:00 GMT
From: swrinde!emory!wa4mei!ke4zv!gary@network.UCSD.EDU
Subject: Alinco DJ580 Gets HOT!!!
To: info-hams@ucsd.edu

In article <C7AFzz.G6K@boi.hp.com> dave@boi.hp.com (Dave Fujii) writes:
>I've got a DJ580T HT that, when transmitting on medium or high power
>(12V operation) the unit gets very hot -- too hot to hold! Has anyone
>else experienced this? I'm wondering if something is wrong with the
>unit.

Dave, this is a feature, not a bug. It tends to limit transmission time gracefully. Rather than abruptly shutting down the transmitter with a timeout timer, they allow you to talk until you have to drop the radio screaming in pain. :-)

Seriously, this is normal. If it happens on the low power battery, then you might worry that you talk too much.

Gary

```
--
Gary Coffman KE4ZV          | You make it,      | gatech!wa4mei!ke4zv!gary
Destructive Testing Systems | we break it.     | uunet!rsiatl!ke4zv!gary
534 Shannon Way           | Guaranteed!      | emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244    |                   |
```

Date: Thu, 20 May 93 03:27:01 GMT
From: usc!howland.reston.ans.net!usenet.ins.cwru.edu!magnus.acs.ohio-state.edu!
cis.ohio-state.edu!mstar!n8emr!gws@network.UCSD.EDU
Subject: catalina ISland/SO cal freq
To: info-hams@ucsd.edu

Does anyone have a list of amateur radio freq 2 or 440) on Catalina Island? How about some interesting scanner freq? How about a friendly freq in Sothern california? Last time I was in SO cal I found some very rude people on a couple freqs.

--
Gary W. Sanders gws@n8emr.cmhnet.org, 72277,1325
N8EMR @ N8JYV (ip addr) 44.70.0.1 [Ohio AMPR address coordinator]
HAM BBS 614-895-2553 (1200/2400/V.32/PEP) Voice: 614-895-2552 (eves/weekends)

Date: Thu, 20 May 1993 05:28:52 GMT
From: usc!howland.reston.ans.net!wupost!csus.edu!netcom.com!
wa2ise@network.UCSD.EDU
Subject: HTX-202 going on sale
To: info-hams@ucsd.edu

Bought one yesterday here in Silicon Valley. Went into a random Radio Shack on "El Camino Real" and bought their last one. Looks like a nice radio, though I haven't had time to play with it much yet (new job keeps me busy). Also got the extended warrenty (5 years, \$40).

People may note with amusement that, even though I have crossposted many mod files from/to packet, the radio I bought has no mods! I have a scanner

for out of band reception.

Date: Thu, 20 May 1993 08:42:12 GMT
From: mcsun!news.funet.fi!aton.abo.fi!usenet@uunet.uu.net
Subject: Icom IC-02E deviation adjustment?
To: info-hams@ucsd.edu

Icom-02E deviation adjustment?

Dear OM,

My old two meter handheld Icom IC-02E need to have its deviation adjusted. However, I do not have the schematic or parts placement diagram. Just a very poor block diagram. If you are familiar with this rig, would you please tell me where the deviation adjustment component is located.

Thanks in advance!

73 Mika OH1NZQ@OH1RBU.FIN.EU

or internet: msuoranta@finabo.abo.fi

(please e-mail because I do not get this newsgroup very often to my site)

Mika Suoranta, It.Pitk{k. 47 B 36, 20810 Turku, p.921-355053 (1.6.93 alk.)
Turun kauppakorkeakoulu, kansantalouden laitos, 20500 Turku, puh.921-638311
Internet e-mail MSUORANTA@FINABO.ABO.FI Packet Radio OH1NZQ@OH1RBU.FIN.EU

Date: Thu, 20 May 1993 07:56:12 GMT
From: usc!wupost!emory!wa4mei!ke4zv!gary@network.UCSD.EDU
Subject: Intermod/spurious sigs a common HT problem?

To: info-hams@ucsd.edu

In article <1teggq2\$jpi@techbook.techbook.com> genew@techbook.techbook.com (Gene Wolford) writes:

>

>Is it true that intermod and spurious signals are a common problem
>om multiband handy talkies?

Yes.

>If so, how do some of the newer rigs perform?

>Such as Yaesu FT-530, ICOM W21AT, Kenwood TH-78A.

Worse, if anything, than the older rigs *without* the wideband
receive capability, small size, and low power consumption.

>Any information on this subject or others related to 2m/70cm HT
>performance would be greatly appreciated.

The best dual band amateur HT as far as intermod goes is the Icom
32AT. It's not made anymore of course. As the size is decreased,
there's less room for good filters. As the power consumption is
decreased, there's less chance of a strong front end. As wide band
receive is increased, there's less protection from intermod. As
sensitivity is increased, for use with the rubber dummy load,
there's more chance for intermod from overload when you put on a
real antenna. Etc.

My advice to beginners: GET A REAL RADIO. A HT on your belt isn't
a do all device. It's a specialized tool only suited for certain
restricted uses. For 99% of amateur use, a good mobile rig is a
better deal.

I know, from sales figures, that no one is going to pay attention
to this advice. But when you can't reliably hit the repeater, and
when the howling intermod drives you mad, remember that I TOLD YOU
SO.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

Date: 20 May 1993 09:52:34 GMT

From: usc!cs.utexas.edu!uwm.edu!csd4.csd.uwm.edu!erchul@network.UCSD.EDU
Subject: Mods for RCI-2950
To: info-hams@ucsd.edu

Now that I have decided to get a RCI 2950
(Thanks Nick, Robert, John & haga?)

Would some kind soul PLEASE mail/post
any/all mods for the RCI 2950.

Thanks
Dave

Date: Wed, 19 May 93 17:15:26 PDT
From: telesoft!fatcity!don@uunet.uu.net
Subject: Mods for TS50
To: info-hams@ucsd.edu

cfishman@pica.army.mil (Clark Fishman, FSAC-FCD) writes:

> Anyone out there know how to get general frequency
> on a Kenwood TS-50 HF rig please let me know?????
>
>
> Clark Fishman WA2UNN cfishman@pica.army.mil
>
>

Clark, if you pull the bottom cover. Look around and find D5. Its hard to miss since its the only non smt diode on the board. clip one side and thats all you need to do. As far as gen coverage, it will do that out of the box. The mod will let you xmit anywhere. 73 de Don./

--
don@fatcity.cts.com (Don Hamiel)
Fat City Software BBS -- (619) 484-7683
UUCP: ...crash.cts.com!fatcity!don OR ...telesoft.com!fatcity!don

Date: 19 May 93 16:21:36 GMT
From: sdd.hp.com!hp-cv!ogicse!usenet.ee.pdx.edu!fastrac.llnl.gov!wsrcc.com!

wetware!spunky.RedBrick.COM!psinntp!psinntp!laidbak!tellab5!mgweed!cbnewsk!
cbnewsj!tec@network.UCSD.EDU
Subject: QSL info need for Pitcairn Island
To: info-hams@ucsd.edu

I am not a DX'er but I recently worked VR6BB on 10M CW. I believe this to be Pitcairn Island and would like a QSL card. My DXCC Prefix book shows that the ARRL outgoing QSL buro does not service VR6.

Does anyone know how to go about getting a card? Any hope of finding a stateside manager?

Would also welcome any comments on rather it would be appropriate or maybe even expected to include a couple of bucks in with my QSL?

BTW, how rare is VR6? Did I bag a good one?

Tom Clark - KA40VZ

\$set MODE=CW

Date: Thu, 20 May 1993 08:29:07 GMT
From: usc!wupost!emory!wa4mei!ke4zv!gary@network.UCSD.EDU
Subject: RFI from ZyXEL modem, please advise
To: info-hams@ucsd.edu

In article <tpang.737870323@sfu.ca> tpang@fraser.sfu.ca (Tsui Ting Debbie Pang) writes:

>
>I am experiencing RFI from both my MAG MV-14S, and my ZyXEL modem, but not
>from my Amiga 3000 (by simple isolation test), which makes noise on both
>CB and 2m frequencies on the receivers.
>
>I will be doing some mods to my ZyXEL, so I want to know, for convenience
>sake, if I could add some metal/iron to shield the ZyXEL plastic case,
>internally or externally (ugly :). Is it just e-field to be shielded,
>i.e. Aluminum foil is ok. Or magnetic field? which I need iron/steel to
>do?

The usual remedies will work. Conductive sprays on the inside of the plastic cabinet will help, the GC brand is fine. Shielded cabling will help. Getting your antennas as far as possible from the device will help. And as last resort, using 0.1 uf bypasses liberally on the circuit boards will help.

You're dealing with EM radiation, so either an electric or a magnetic

shield will reduce radiation. Generally it's easier to do electric field shielding than magnetic field shielding. Aluminum, totally bonded, should be as effective as steel. Best is a material that is lossy, such as ferrite, that will both contain and dissipate the energy fields. The conductive sprays are a mixture of highly conductive material for shielding, and resistive material for dissipation. Quite often they are more effective than traditional highly conducting shielding alone. Remember that shielding depends on the skin effect. It doesn't have to be thick to be effective.

Gary

--

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Lawrenceville, GA 30244				

Date: 20 May 93 09:44:09 GMT
From: pipex!uknet!mcsun!julienas!laas!NewsWatcher!user@uunet.uu.net
Subject: VHF/UHF Full Duplex Power amplifier?
To: info-hams@ucsd.edu

I want to build a power amplifier for my VHF/UHF pocket transeiver(FT470). I have 2 MOS_FET transistors (one for each band). I am looking for a scheme which enable full duplex transmission with a diode switching ??
Thank you and 73's, Nicolas (FC1MDY)

Date: Thu, 20 May 1993 08:15:24 GMT
From: swrinde!emory!darwin.sura.net!rsg1.er.usgs.gov!resdgs1.er.usgs.gov!tbodoh@network.UCSD.EDU
Subject: Want windows based theory tester
To: info-hams@ucsd.edu

--

Hello,

Does anyone know of a MS-windows based theory practice package? I guess windows would not be necessary but I want one that has the necessary diagrams. Shareware, freeware or public domain is preferred. I've seen some nifty exam packages on the net, but none seem to have the diagrams.

Thanks in advance...

```
+++++
+ Tom Bodoh - Sr. systems software engineer
+
+ USGS/EROS Data Center, Sioux Falls, SD, USA 57198      (605) 594-6830      +
+ Internet; bodoh@dgg.cr.usgs.gov (152.61.192.66)
+
+ "Welcome back my friends to the show that never ends!" EL&P
+
+++++
```

Date: Thu, 20 May 1993 08:13:07 GMT
From: usc!wupost!emory!wa4mei!ke4zv!gary@network.UCSD.EDU
Subject: What is circular polarization?
To: info-hams@ucsd.edu

In article <1481@arrl.org> zlau@arrl.org (Zack Lau) writes:

>In rec.radio.amateur.misc, jlbromley@sedona.intel.com (Jim Bromley, W5GYJ) writes:
>>

>> (3) TE and TM guide has this thing called phase delay which varies,
>> sometimes rather a bit near cut-off, with frequency. This might
>> produce a frequency-sensitive beam tilt.

>

>This shouldn't be a problem with amateur antennas, unless you are
>are going to try using WR-62 on 10.4 GHz. The obvious solution is
>to use a guide big enough so you aren't close to cut-off.

>

>I wouldn't have guessed that commercial VHF/UHF broadcasters had a need
>for frequency agile antennas like the shortwave types. Though it might
>be useful to avoid Tropo and E-skip problems, I don't see the viewers
>appreciating this :-). Its rare to get both at the same time.
>Tropo tends to be better on UHF, while E-skip tends to be better
>in the lower part of the VHF spectrum. For the broadcaster's
>point of view, substitute worse for better...

For TV, the broadcaster wants very consistent performance over the
6 MHz channel. He wants the load to be constant impedance over that
range, and he wants the beam tilt constant in a high gain array.
The coax slot gives that. It's also a piece of cake to field tune
it for ideal pattern. The slot is fed by tabs acting as capacitive
probes on the center conductor. Those tabs have slotted holes for
their retaining bolts to allow custom tuning in place. There are
also slotted tabs at the end of each slot to allow custom frequency
adjustment. It's so easy it's sinful to tune one of these babies
up.

>I think this is a pretty neat antenna for amateur microwave use,
>particularly if you can find someone to design it for you :-).
>After all, what is there to go wrong with a piece of "pipe" with
>holes cut into it? Yeah, I suppose you could make the slots in
>the wrong place, but these could be patched and placed in some
>sort of radome so nobody sees how ugly it really is.

Yep, it's a great antenna. The fact that it acts as it's own support pole and feedline is also a major plus. There's nothing extra hanging out in the breeze to generate wind load or to gather ice. We don't even have to put deicers on them. The power from the transmitter keeps ice off the slot covers, and the rest of the pole doesn't matter.

Gary

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--
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534 Shannon Way           | Guaranteed!      | emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244   |                   |
```

Date: Thu, 20 May 1993 05:45:46 GMT
From: swrinde!emory!wa4mei!ke4zv!gary@network.UCSD.EDU
To: info-hams@ucsd.edu

References <199305160442.AA21270@tilde.csc.ti.com>,
<1tbn41\$hov@k2.sj.ate.slb.com>, <1tdfcr\$443@cville-srv.wam.umd.edu>
Reply-To : gary@ke4zv.UUCP (Gary Coffman)
Subject : Re: Buy back 11 Meters

In article <1tdfcr\$443@cville-srv.wam.umd.edu> ham@wam.umd.edu (Scott Richard Rosenfeld) writes:

>I only have one problem with the "Death to CB" thread going on here, and
>the general distaste for CB. While much of the stuff going on within the
>11 meter band is vulgar, obscene, and distasteful, there is also:

>

>1) Truck to truck communications, which make long-distance hauling
> a considerably easier, more pleasant, and safer proposition for
> everybody who uses the road.

>

>2) The fact that truckers, who are a major player in the use of 11
> meters, use it to help people who are driving cars equipped
> with CB's.

>

>3) The fact that CB is a cheap, quick-and-dirty way to make emergency

> communications, and could also be viewed as a resource if one chose
> to. Notice that you can't get an "emergency 10 meter ham radio
> kit with collapsible antenna" for \$40 anywhere.
>
>4) A way to get into 2-way communications (like ham radio) with very
> little investment. If a CB was your first radio, raise your hand.
>
>Leave the Citizen's Band alone. We're allowed to use it too!

CB wasn't my first experience with radio communications, it was my second after amateur radio. I got a unit for the reasons you list. Outside the cities, and when the skip was dead, it was a useful form of highway communications. But inside the cities it was such a zoo that I switched off. Finally I took it out because it was taking up valuable under dash space for little or no benefit. I don't mind a little swearing, even the redneck wannabes didn't bother me, but the incessant inane chatter got on my nerves. These people didn't have anything to say, they just wanted to chatter. It was like the monkey house at the zoo, or 20 meters on a contest weekend. It's an insult to the intelligence of a moron.

Gary

--

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Lawrenceville, GA 30244				

Date: Thu, 20 May 1993 07:36:29 GMT
From: usc!cs.utexas.edu!swrinde!emory!wa4mei!ke4zv!gary@network.UCSD.EDU
To: info-hams@ucsd.edu

References <1476@arrl.org>, <1993May19.165450.20420@ke4zv.uucp>,
<1te22fINN294@rave.larc.nasa.gov>
Reply-To : gary@ke4zv.UUCP (Gary Coffman)
Subject : Re: What is circular polarization?

In article <1te22fINN294@rave.larc.nasa.gov> kludge@grissom.larc.nasa.gov (Scott Dorsey) writes:

>In article <1993May19.165450.20420@ke4zv.uucp> gary@ke4zv.UUCP (Gary Coffman) writes:

>>The reason is wind loading. At FM and VHF TV frequencies, a waveguide in
>>TEM mode would be a yard in diameter instead of 6 1/8 inches. With a
>>80 foot tall antenna on a 1000 foot tower, that's a lot of moment arm
>>to have hanging out in the breeze.

>

>Actually, I am ashamed to say that I did construct such a thing as an
>engineer at a small, low-power FM station in Atlanta. It was not a good
>idea, although the waveguides fabricated from trash cans welded together
>were rather ingenious. The difficulty was that the shifts in dimensions
>caused by soft breezes were enough to completely change the antenna pattern...
>--scott

That wouldn't be Radio Free Georgia would it?

Gary

--

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End of Info-Hams Digest V93 #610
